

x16329 SEQ (12.2.05).txt  
SEQUENCE LISTING

<110> Isis Pharmaceuticals, Inc.  
Eli Lilly Company

<120> MODULATION OF SURVIVIN EXPRESSION

<130> X-16329

<160> 233

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 1  
tccgtcatcg ctcctcaggg 20

<210> 2  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 2  
atgcattctg cccccaagga 20  
  
<210> 3  
<211> 14796  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> H. sapien

<400> 3  
tcttagacatg cggatataatt caagctgggc acagcacacgc agccccaccc caggcagctt 60  
gaaatccatcg ctggggtccca aagggaccac acccccgggg actgtgtggg ggtcgccccca 120  
cacaggccac tgcttcccccc cgtcttctc agccatttctt gaagtcaagcc tcactctgt 180  
tctcaggggat ttcaaatgtg cagagactct ggcactttt tagaaagcccc ttctgtgtcc 240  
aacttacacc tggatgctgtt ggggctgcag ctgctgtcg ggctcgggag gatgctgggg 300  
gcccggtgcc catgagcttt tgaagctcctt ggaactcggg tttgagggtg ttcagggtcca 360  
ggtggacacc tgggctgtcc ttgtccatgc atttgatgac atttgtgtgca gaagtggaaaa 420  
ggagtttaggc cgggcatgtt ggcttatgcc tgaatccca gcacccgggg aggctgaggc 480  
gggtggatca cgaggtcagg agttcaatac cagcctggcc aagatgggtga aacccgtct 540  
ctactaaaaaa tacaaaaaaaaa tttagccccggc atggtggcg ggcgtatgtaa tcccagctac 600  
tgggggggct gaggcagaga attgctggaa cccaggagat ggagggttgcgtgagccaag 660  
atttgccac tgcactgcac tccagcctgg cgacagagca agactctgtc taaaaaaaaaa 720  
aaaaaaaaaa tgaaaaggag ttgttcctt cctcccttctt gagggcaggc aactgtgtcg 780  
gttgcctgtt gaggtgggtgc gtccttggtc tggccttggg ggcacccca gcagaggcca 840  
tggtgggtgcc agggccccggt tagcgagccaa atcagcagga cccaggggcg acctgcca 900  
gtcaactggta ttgtataact gcagcgaagt taagtttctt gatggatg attgtgttgc 960  
ggttgtgtaa gagaatgaag tatttcgggg tagtatggta atgccttcaa cttacaaacg 1020  
gttcaggtaa accaccata tacatacata tacatgcatg tgatataac acatacagg 1080  
atgtgtgtt gttcacatataatgagggggag agagactagg ggagagaaag taggttgggg 1140  
agagggagag agaaaggaaa acaggagaca gagagagagc ggggaggtaga gagagggaaag 1200  
gggtaagaga gggagaggag gagagaaagg gagaagaag cagagagtga atgttaaagg 1260  
aaacaggcaa aacataaaca gaaaatctgg gtgaagggttataatgttatt ctttgacta 1320  
ttcttgcaat tatctttat ttaaatttgc atcggccgg ggcgttgc tcacatctgt 1380

x16329 SEQ (12.2.05).txt

aatcccagca	cttgggagg	ccgaggcagg	cagatcactt	gaggtcagga	gtttgagacc	1440
agcctggcaa	acatggtcaa	acccatctc	tactaaaaat	acaaaaattaa	gcctgggtg	1500
gtggtgcatt	ccttaatct	cagctactcg	ggaggctgag	gcaggagaat	cgcttgaacc	1560
cgtggcgaaa	aggaggttgc	agttagctga	gatcatgcca	ctgactcca	gcctggcga	1620
tagagcgaga	ctcagttca	aataaataaa	taaacatcaa	aataaaaagt	tactgtatta	1680
aagaatgggg	gcgggggtggg	aggggtgggg	agagggtgca	aaaataaata	aataaataaa	1740
taaacccaa	aatgaaaaaaag	acagtggagg	caccaggct	gcgtggggct	ggagggctaa	1800
taagggcagg	cctcttatct	ctggccatag	aaccagagaa	gtgagtggat	gtgatgccc	1860
gctccagaag	tgactccaga	acaccctgtt	ccaaagcaga	ggacacactg	atttttttt	1920
taatagctg	caggacttac	tttgggtggg	acgcccgtct	tttgcgaagg	aaaggaggag	1980
tttgcctga	gcacaggccc	ccaccctcca	ctggcttcc	ccagctccc	ttgtcttctt	2040
atcacgttag	tggcccagtc	cctggccccc	gactccagaa	gttggccctc	ctggaaaccc	2100
aggtcgtag	gtcaacagat	tactcgcgg	gacagcgtat	tctgtgcac	tccatccctc	2160
ccctgttcat	ttgtccttca	tgcccgtctg	gagtagatgc	ttttgcaga	ggtggcaccc	2220
tgtaaagctc	tccgtctga	ctttttttt	tttttagac	tgagtttgc	tcttgttgc	2280
taggctggag	tgaatggca	caatctcagc	tcactgcacc	ctctgcctcc	cgggttcaag	2340
cgattctcct	gcctcagcc	cccgagtagt	tgggattaca	ggcatgcacc	accacgccc	2400
gctaattttt	gtattttag	tagagacaag	gtttcaccc	gatggcagg	ctggtcttga	2460
actccaggac	tcaagtgtat	ctccctgcct	ggccctctaa	agtgttggaa	ttacaggcgt	2520
gagccactgc	accggccctg	cacgcgttct	ttgaaagcag	tcgagggggc	gctagggttg	2580
ggcagggacg	agctggcg	gcgtcgctgg	gtgcaccgc	accacgggca	gagccacgc	2640
gcggggggac	tacaactccc	ggcacacccc	gcccgc	gcctctactc	ccagaaggcc	2700
gcgggggggt	gaccgcctaa	gagggcgtgc	gctcccgaca	tgcccccgcgg	cgcgcattaa	2760
accgcagat	ttgaatcg	ggaccgttg	gcagaggtgg	cgccggcggc	atgggtgccc	2820
cgacgttgcc	ccctgcctgg	cagccctttc	tcaaggacc	ccgcattctc	acattcaaga	2880
actggccctt	cttggagggc	tgccctgc	ccccggagcg	ggtgagact	ccgggcctcc	2940
ttgggttcccc	ca	ttgggttcccc	ccttagcgagg	ccactgtgac	tgggcctcgg	3000
gggtacaaggc	ccgcctcccc	tcccccgtct	gtcccccagcg	aggccactgt	ggctgggccc	3060
tttgggtcca	ggccggccctc	ccctccctgc	tttgc	tcgaggcctt	tgtggctgg	3120
cctcggtt	ccgggctg	acgtccactc	acgagctgt	ctgtccctt	cagatggccg	3180
aggctggctt	catccactgc	cccactgaga	acgagccaga	tttgc	tgtttttct	3240
gcttcaagga	gcttggaa	tgggagccag	atgacgaccc	catgtaa	ttctctggcc	3300
agcctcgatg	ggctttgtt	tgaactgt	tgtcaaaaga	tttgc	aaagacactt	3360
agtatgggg	ggttgc	cacccttatt	gtttctt	ttttttttt	gaacggat	3420
ctctctat	gttgg	tggtgc	tacaac	tttgc	tttgc	3480
atgccttgg	gttgg	gttgc	tttgc	tttgc	tacatcg	3540
gaccgttgc	tttgc	acttgc	ccaa	tttgc	tttgc	3600
acagtttaat	tgttgc	ccaggatgt	tttgc	tttgc	tttgc	3660
cacacttcg	tttgc	tttgc	tttgc	tttgc	tttgc	3720
gccaacttgg	tttgc	tttgc	tttgc	tttgc	tttgc	3780
cacgcggta	tttgc	tttgc	tttgc	tttgc	tttgc	3840
gcgggggtt	tttgc	tttgc	tttgc	tttgc	tttgc	3900
actccgtcat	tttgc	tttgc	tttgc	tttgc	tttgc	3960
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4020
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4080
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4140
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4200
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4260
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4320
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4380
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4440
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4500
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4560
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4620
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4680
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4740
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4800
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4860
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4920
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4980
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5040
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5100
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5160
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5220
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5280
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5340
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	5400

x16329 SEQ (12.2.05).txt

ttcactcttg	ttgcccaggc	tggagtgcaa	tggtgcaatc	ttggctca	gcaaccctcg	5460
cctctcggt	tcaagtgatt	ctccctgcctc	agccctccaa	gtaactggga	ttacagggaa	5520
gtgccaccac	acccagctaa	tttttgtatt	tttagtagag	atggggttt	accacattgc	5580
ccaggctggt	cttgaactcc	tgacctcg	attcgccac	cttggccctcc	caaagtgctg	5640
ggattacagg	cgtgaaccac	cacgcctggc	ttttttttt	ttgttctgag	acacagttc	5700
actctgttac	ccaggctgga	gtagggctggc	ctgatctcg	atcaactgca	cctccgcctc	5760
ctgggctcaa	gtgatttgcc	tgcttcagcc	tcccaagtag	ccgagattac	aggcatgtgc	5820
caccacaccc	aggtatattt	tgtatttttt	gtagagacga	ggtttccacca	tgttggccag	5880
gctggtttt	aactccgtac	ctcaggtat	ccacccgcct	cagccctccca	aagtgtgag	5940
attatagg	tgagccacca	cacccggcc	caggaatgt	tttattttt	aaatttattt	6000
atttatttg	gatggagtct	tgctctgtcg	cccaggctag	agtgcagcga	cgggatctcg	6060
gctca	actccgccc	cccaggttca	agccatttc	ctgcctcagc	ctcccgagta	6120
gctgggacta	caggcgcccc	ccaccacacc	cggctaattt	ttttgtattt	tttagtagaga	6180
cgggtttca	ccgtgttagc	caggagggtc	ttgatctct	gacctcgta	tctgcctgccc	6240
tcggcctccc	aaagtgtcg	gattacaggt	gtgagccacc	acacccggct	atttttattt	6300
ttttgagaca	gggactca	ctgtcacctg	ggctgcagtg	cagtggata	ccatagctca	6360
ctgcaggctc	gaactccgt	gctcaagtg	tcctccacc	tcatcctc	aagtaatttg	6420
gactacaggt	gcacccccc	atgcccac	aatttattt	tttattttt	tatttatttt	6480
catagagat	agggtttcc	gtgttgc	ggctggctt	gaactccgt	gctcacggga	6540
tcctttgc	ttggcctccc	aaagtgtca	gattacaggc	atgagccacc	tgcccagct	6600
aggaatcatt	tttaaagccc	ctaggatgtc	tgtgtattt	taaagctcct	ggagtgtggc	6660
cggtataagt	atataccgg	ataagtaat	cccacattt	gtgtcagtt	ttactagaaa	6720
cttagtcatt	tatctgaagt	tgaaatgtaa	ctggcctta	tttattttt	tatttattta	6780
tttattttt	atttttttt	ttgagacgag	tctcactt	tcacccaggc	tggagtgcag	6840
tggcacgatc	tcggctca	gcaacctctg	cctcccggg	tcaagcgatt	ctccctgcctt	6900
agcctcccg	gtagctggg	ctacaggcac	gcaccacat	gcctggctaa	ttttgtatt	6960
tttagtagac	gggggttcc	catgtggcc	aagctggct	caaactcc	accttgcgt	7020
ctggccctt	tagccccc	gagtgtggg	attacaggc	tgagccacca	tgcgtggct	7080
ttttaaattt	tttgattttt	ttttttttt	gagacagagc	tttgctctgt	cggccaggct	7140
ggagtgcagt	ggcacgatc	cagtcacta	caagctccg	ctcccggtt	cacgcccattc	7200
ttctgcctca	gcctccgt	tagctggac	tacagggtcc	caccaccacg	cctggctaat	7260
ttttttgt	attttattt	gagacaagg	ttcatcatgt	tggccaggct	ggtctcaa	7320
tcctgac	aagtgtatcg	cctgcctcg	cctcccaag	cgctgagatt	acagggtgt	7380
tctactgcgc	caggcctgg	cgtcatat	tcttatttgc	taagtctggc	agccccacac	7440
agaataagta	ctgggggt	ccatatcc	gtagcaa	cctgggtgg	gagtcaaggag	7500
atgtttagt	tctgtctcg	ccacttgc	actttgagtt	taagccatgc	tgcctcatgc	7560
ttcctgt	aaatagagg	tagacc	atcccattt	tttcaggtt	gctttcagc	7620
ttgaaaattt	tattcc	tagagatc	cgtaaaataa	ttctgtc	atatgtggct	7680
ttat	ttgagacaga	gtgtcactc	gtcgcccagg	ctggagtgt	tggtgcgt	7740
cttggctcac	tgcgac	acctcccagg	ttcaagcgat	tctcg	caggctccca	7800
agtagctgag	attatagg	tgtgccacca	ggcccagta	actttgtat	ttttagtaga	7860
gacagggtt	tgccatgtt	gctaagctgg	tctcga	ctggcctca	gtgatctgc	7920
cgccttggca	tccaaagtg	ctgggattac	aggtgt	gaac	ccacac	7980
tagtggctt	taagtgtca	ggactgagat	tgtgtttgt	caggaagagg	ccagttgtgg	8040
gtgaagcatg	ctgtgagaga	gcttgc	tgggtgaggt	tgtggagct	gcagcgtgg	8100
aactggaaag	tggctgggg	atcatctt	tccagg	tcag	ggc	8160
agcgtgccc	agaccatc	ttagccctcg	tgggtcagag	tctctgtt	atattgtctt	8220
ttgttgg	tcacaac	ttagaaacat	aaaaagcatt	tttagcc	gggctggaca	8280
aaaaaaggcc	atgacggg	gtatggattt	ggcccagc	gccc	tgcct	8340
gttttagaca	aggagcag	tgtgtc	gaaccat	gggcacagg	gaggagcaga	8400
gtggatgtgg	aggtgtg	tggaaaccag	gtcccagagc	gctgagaa	acagagggtt	8460
tttggcc	caagt	gac	tgacaccatc	cattcc	aa	8520
gtgctgg	acgt	ctgg	ctagg	tttgc	tttgc	8580
gtagggggag	tccact	c	tgtgat	aaa	tttgc	8640
gggc	atgt	cc	cactt	tttgc	tttgc	8700
gagg	gatc	gatc	acat	tttgc	tttgc	8760
acaaaaattt	agctgg	ggtggc	ccgt	tttgc	tttgc	8820
ggc	ggc	ggc	gag	tttgc	tttgc	8880
gcact	ctgg	ctgg	ccgt	tttgc	tttgc	8940
ttcat	gtg	gtg	gca	tttgc	tttgc	9000
gacc	gac	gac	gca	tttgc	tttgc	9060
ttac	cgag	aaat	aaaa	tttgc	tttgc	9120
ttttttttt	tgtt	ttttt	ttttt	tttgc	tttgc	9180
tattactt	atttt	atataat	ttttt	tttgc	tttgc	9240
tactctgt	cccagg	gtgc	tttgc	tttgc	tttgc	9300
ctgggctca	atgatt	ctcc	tttgc	tttgc	tttgc	9360
tttgc	cttgc	tttgc	tttgc	tttgc	tttgc	9420

x16329 SEQ (12.2.05).txt

agatcccaga	tttgatggca	ggatgcccct	gtctgctgcc	ttgccagggt	gccaggaggg	9480
cgctgcgtg	gaagctgagg	cccggccatc	cagggcgatg	cattgggcgc	tgattcttgt	9540
tcctgcgtct	gcctcggtgc	ttagcttttgc	aaacaatgaa	ataaattaga	accagtgtga	9600
aaatcgatca	ggaaataaaat	ttaatgtgga	aataaaactga	acaacttagt	tcttcataag	9660
agtttacttg	gtaaataactt	gtgatgagga	caaaacgaag	cactagaagg	agaggcgagt	9720
tgttagacctg	ggtaggcaggaa	gtgtttgtt	tgtttctt	ggcagggtct	tgctctgttg	9780
ctcaggctgg	agtagactgg	cacaatcaca	gctcaactata	gcctcgac	cctggactca	9840
agcaattctc	ctgcctcagc	ctcccagtag	ctgggactac	aggcgatgc	caccatgcct	9900
ggctaattt	aaattttttt	ttttcttctt	ttttagatgg	aatctcactc	tgtcgcccag	9960
gctggatgtc	agtggctgt	tctggctga	cggcaagctc	cgcccccag	tttcaactcca	10020
ttcgcctgccc	tcagccccc	aagttagctgg	gactacaggc	gctgggatta	caaaccaaaa	10080
ccaaagtgc	tgggattaca	ggcgtgagcc	actgcacccg	gcctgtttt	tctttcaata	10140
gcaagagttg	tgttgcttc	gcccctacct	tttagtggaaa	aatgtataaa	atggagatat	10200
tgacctccac	attgggggtgg	ttaaattata	gcatgtatgc	aaaggagctt	cgctaattta	10260
aggctttttt	gaaagagaag	aaactgaata	atccatgtgt	gtatataat	tttaaaagcc	10320
atggtcatct	ttccatata	gtaaagctga	ggctccctgg	gactgcagag	ttgtccatca	10380
cagtccattt	taagtgcgt	gctgggcccag	gtgcagttgc	ttgtgcctga	atcccacac	10440
tttgggaggc	caaggcgagg	ggatttatttgc	agcccaggag	tttgaggcg	agcctgggca	10500
atgtggccag	accatcatcc	ttcaaaaaat	acacaaaaaa	tttagccaggc	atggtgccac	10560
gtgcctgttag	tccagctac	tcaggagggt	gagggtggag	gatcacttgc	agccttgcag	10620
gtcaaagctg	cagaagcc	tgatcttgc	actgcattcc	agccctggatg	acagagcgag	10680
accctgtctc	taaaaaaaaaa	aaaaacccaa	cggtgcactg	ttttttttt	tcttatcaat	10740
tttattttt	taaattaaat	tttcttttaa	taatttataa	attataaatt	tatattaaaa	10800
aatgacaat	tttttattact	tatacatgag	gtaaaactta	ggatataaa	agtacatatt	10860
gaaaagtaat	tttttgctg	gcacagtggc	tcacaccctgt	aatccagca	ctttgggagg	10920
ccgtggcggg	cagatcacat	gagatcatga	gttcgagacc	aacctgacca	acatggagag	10980
accccatctc	tactaaaaat	acaaaattag	ccgggggtgt	ggcgcattcc	tgtatccca	11040
gctactcggg	aggctgaggc	aggagaat	cttgaacccg	ggaggcgag	gttgcgggt	11100
gccaagatcg	tgccttgc	caccgccta	ggcaacaaga	gcggaaagtcc	gtctcaaaaa	11160
aaaagtaatt	tttttaagt	taacccctgt	cagcaacaa	atttaacccca	ataaaggct	11220
ttgttttta	atgttagtga	ggagttaggg	tttataaaaa	atatggtagg	gaaggggtc	11280
cctggatttg	ctaatgtat	tgtcatttgc	ccctttaggag	agagctctgt	tagcagaatg	11340
aaaaaattgg	aagccagatt	caggaggga	cttgaagcaaa	aagaatttct	gttcgaggaa	11400
gagcctgtat	tttgcctggg	tctgtttaac	tggacatgaa	gaggaaggct	ctggactttc	11460
ctccaggagt	ttcaggagaa	aggtaggc	gtggtaaga	gcagactct	gccttagacta	11520
gctgggggtc	ctagactgc	tgggtgtccc	agactagctg	gggtgcctag	actagctgg	11580
tactttgtt	ggcttcttc	gcctggac	cggttcttc	acctgtatg	tagagatatg	11640
ggagcaccca	gcccggatc	actgtgaaca	taaatcaat	aatggaggaa	gcaggttagag	11700
ttggctgtgg	tgcataccaa	gcactccgtc	agtgtttct	gttattcgt	gattaggagg	11760
cagcttaaac	tagaggggat	tgagctgaat	caggatgtt	gtcccaggt	gctgggaatc	11820
tgcctagccc	agtgcctcgt	ttattttat	gctctctcag	tgttccctga	ttgtttttc	11880
ctttgtcattc	ttatctacag	gtatgtactg	ggaagctctg	gtttcagtgt	catgtgtcta	11940
ttcttttattt	ccaggcaaa	gaaaccaaca	ataagaagaa	agaattttag	gaaactgcga	12000
agaaaagtgcg	ccgtggccatc	gagcactgtgg	ctgcccattga	tttggggcctc	tggccggagc	12060
tgcctgttgc	cagatgtgg	gcaccacttc	cagggttat	tccctgttgc	caccagcctt	12120
cctgtggcc	ccttagcaat	gtcttaggaa	aggagatcaa	cattttcaaa	ttagatgttt	12180
caactgtct	ctgtttttgt	cttggaaatgt	gcaccagagg	tgcttctg	tgtgcagcgg	12240
gtgctgttgc	taacagtggc	tgcttcttc	tctctcttc	ttttttgggg	gctcattttt	12300
gctgttttgc	tttccgggtt	taccagggt	gaagtgggg	aggaagaagg	cagtgtccct	12360
tttgcttagag	ctgacagctt	tgttcgcgt	ggcagacgc	tccacagtga	atgtgtctgg	12420
acctcatgtt	gttggggctg	tcacagtcc	gagtgtggac	ttggcagggt	cctgttgaat	12480
ctgagctgc	ggttccctt	ctgtcacacc	tgtgccttct	cagaggacag	ttttttgtt	12540
tttgggtttt	tttgggtttt	ttttttgtt	gatgcatgac	tttgcgttgc	tgagagaatg	12600
gagacagat	ccctggctcc	tctactgttt	aacaacatgg	tttttttattt	ttgtttaat	12660
tgttaattca	cagaatagca	caaactacaa	ttaaaactaa	gcacaaagcc	attctaagtc	12720
attggggaaa	cggggtgaac	ttcaggtgg	tgaggagaca	gaatagatgt	ataggaagcg	12780
tctggcagat	actccctttt	ccactgtgt	gtgatttagac	aggcccagt	agccgcgggg	12840
cacatgctgg	ccgcctcc	ctcagaaaaaa	ggcagtggcc	taaatccctt	ttaaatgact	12900
tggctcgat	ctgtggggga	ctggctggc	tgctgcaggc	cgtgtgtctg	tcagcccaac	12960
tttcacatct	gtcacgttct	ccacacgggg	gagagacga	gtccgcccag	gtccccgctt	13020
tctttggagg	cagcagctcc	cgcagggtcg	aagtctggcg	taagatgt	gatttgattc	13080
gccctccctcc	ctgtcataga	gctgcagggt	ggatgtgtac	agcttcgt	gaaacccctg	13140
gaggtcatct	cggctgttcc	tgagaaataa	aaagcctgtc	atttcaaaaca	ctgctgttgc	13200
ccctactggg	ttttttaaat	attgtcagg	tttcatgtc	gtccctagcc	tgcacacagc	13260
catctgccc	gacagccgca	gtgaggatga	gcgtcctggc	agagacgcag	ttgtctctgg	13320
gcgcttgcca	gagccacgaa	ccccagac	gtttgtatca	tccgggctcc	ttccgggcat	13380
aaacaactga	aatgcactt	cagacccact	tatttatgcc	acatctgagt	cggccttgaga	13440

x16329 SEQ (12.2.05).txt

tagactttc	cctctaaact	gggagaatat	cacagtggtt	ttttagca	gaaaatgcac	13500
tccagcctct	gtactcatct	aagctgctta	ttttgatat	ttgtgtcagt	ctgttaatgg	13560
atacttcact	ttaataactg	ttgcttagta	attggcttg	tagagaagct	ggaaaaaaat	13620
ggtttgcct	tcaactcctt	tgcattccag	gcggtgatgt	ggatctcgcc	ttctgtgagc	13680
ctgtgcgtg	ggcagggctg	agctggagcc	gcccctctca	gcccgcctgc	cacggcctt	13740
ccttaaaggc	catccttaaa	accagaccct	catggctgccc	agcacctgaa	agcttcctcg	13800
acatctgtt	ataaaagccgt	aggcccttgt	ctaagcgcac	ccgcctagac	tttcttcag	13860
atacatgtcc	acatgtccat	ttttcagggt	ctctaagttg	gatggagtc	tggaaagggt	13920
tgtgaatgag	gcttctgggc	tatgggtgag	gttccaatgg	cagtttagag	cccctcgggc	13980
caactgccat	cctggaaagt	agagacagca	gtgcccgtg	cccagaagag	accagcaagc	14040
caaactggag	cccccattgc	aggctgtcgc	catgtggaaa	gagtaactca	caattgccaa	14100
taaagtctca	tgtggttta	tctactttt	ttttctttt	ctttttttt	gagacaaggc	14160
cttgcctcc	caggctggag	tgcagtggaa	tgaccacagc	tcacccgcac	ctcaaattct	14220
tgcgttcaag	tgaacccccc	actttagcct	cccaagtagc	tggactaca	ggcgcacgccc	14280
atcacacccg	gctaattgaa	aaattttttt	ttttgtttag	atgaaatctc	actttgttgc	14340
ccaggctgg	ctcaaactcc	tgggctcaag	tgatcatctc	gcttcagcgt	ccgacttgg	14400
ggtattatag	gctgtggcca	ctgggctgta	cctagctacc	attttttaat	gcagaaatga	14460
agactttag	aaatggaaata	acttgcctcag	gatagtgcac	taagtaactt	ttagagctgg	14520
gatttgaacc	caggcaatct	ggctccagag	ctggggccctc	actgctgaaag	gacactgtca	14580
gcttgggagg	gtggctatgg	tcggctgtct	gattctaggg	agtggggct	gtctttaag	14640
caccccatcc	cattttcaga	cagcttgc	agaaaggctg	tcatatggag	ctgacacac	14700
cctccccaa	gcttccatag	atcctctctg	tacattgtaa	ccttttattt	tgaatgaaa	14760
attcacagga	agttgttaagg	ctagtagcagg	ggatcc			14796

<210> 4  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer

<400> 4  
aaggaccacc gcatctctac a

21

<210> 5  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer

<400> 5  
ccaagtctgg ctcgttctca gt

22

<210> 6  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Probe

<400> 6  
cgaggctggc ttcatccact gcc

23

<210> 7  
<211> 19  
<212> DNA  
<213> Artificial Sequence

x16329 SEQ (12.2.05).txt

<220>  
<223> PCR Primer

<400> 7  
gaaggtgaag gtcggagtc

19

<210> 8  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer

<400> 8  
gaagatggtg atgggatttc

20

<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Probe

<400> 9  
caagcttccc gttctcagcc

20

<210> 10  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 10  
cgagaggcgg acgggaccg

19

<210> 11  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 11  
cgagaggcgg acgggaccgt t

21

<210> 12  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 12  
ttgctctccg cctgccctgg c

21

<210> 13  
<211> 19  
<212> DNA  
<213> Artificial Sequence

x16329 SEQ (12.2.05).txt

<220> 13  
<223> oligomeric Compound

<400> 13  
gctctccgcc tgccctggc 19

<210> 14  
<211> 1619  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> H. sapien

<400> 14  
ccggccagatt tgaatcgccg gaccgcgttgg cagagggtggc ggccggccggca tgggtgcccc 60  
gacgttgcggc cctgcctggc agccctttc caaggaccac cgcatctcta cattcaagaa 120  
ctggcccttc ttggggggct ggcctgcac cccggagccg atggccgagg ctggcttcat 180  
ccactgcccc actgagaacg agccagactt ggcccagtgt ttcttctgct tcaaggagct 240  
ggaaggctgg gagccagatg acgaccat agaggaacat aaaaagcatt cgtccgggtg 300  
cgctttctt tctgtcaaga agcagttga agaattaacc ctttgtgaat ttttgaact 360  
ggacagagaa agagccaaga acaaattgc aaaggaaacc aacaataaga agaaagaatt 420  
tgaggaaact gccaagaaag tgcggcgtgc catcgacag ctggctgcca tggattgagg 480  
cctctggccg gagctgcctg gtcccagagt ggctgcacca cttccaggggt ttattccctg 540  
gtgccaccag ccttcctgtg ggccctttag caatgtctt gaaaggaga tcaacatttt 600  
caaatttag gttcaactg tgcttctgtt ttgtcttgaat agtggccacca gaggtgcttc 660  
tgccctgtca gggggctgtc ctggtaacag tggctgttgc tctctcttc tctctttttt 720  
gggggctcat tttgtctgtt ttgattcccg ggcttaccag gtgagaagtg agggaggaag 780  
aaggcatgtt ccctttgtc agagctgaca gctttgtcg cgtggcaga gccttcaca 840  
gtgaatgtgt ctggaccta tggatgttag gctgtcacag tcctgagttgt ggacttggca 900  
ggtgcctgtt gaatctgagc tgcaggttcc ttatctgtca caccctgtgcc tcctcagagg 960  
acagttttt tggatgttag tttttttttt ggtagatgca tgacttgtgt 1020  
gtgatgagag aatggagaca gagtccctgg ctccctact gtttaacaac atggctttct 1080  
tatttgtttt gaattgttaa ttccacagaat agcacaact acaattaaaa ctaagcacaa 1140  
agccattcta agtcattggg gaaacggggta gaacttcagg tggatgttaga gacagaatag 1200  
agtatgatgg agcgtctggc agatactcct tttggccactg ctgtgtgatt agacaggccc 1260  
agtggccgc ggggcacatg ctggccgtc ctccctcaga aaaaggcagt ggcctaaatc 1320  
cttttaaat gacttggctc gatgtgtgg gggactggct gggctgtgc aggccgtgt 1380  
tctgtcagcc caaccttcac atctgtcacg ttctccacac gggggagaga cgcagtccgc 1440  
ccaggtcccc gctttctttg gaggcagcag ctcccgcaagg gctgaagtct ggcgttaagat 1500  
gatggatttg attcgccctc ctccctgtca tagagctgca gggtggattg ttacagcttc 1560  
gctggaaacc tctggaggtc atctcggtc ttccctgagaa ataaaaagcc tgtcatttc 1619

<210> 15  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 15  
agggcugccca ggcagggggc 20

<210> 16  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 16  
gccccugccu ggcagcccu 19

<210> 17

x16329 SEQ (12.2.05).txt

<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 17  
auccauggca gccagcugcu 20

<210> 18  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 18  
agcagcuggc ugcuaaggau 20

<210> 19  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 19  
aacccuggaa guggugcagc 20

<210> 20  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 20  
gcugcaccac uuccaggguu 20

<210> 21  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 21  
aggcugugg caccagggaa 20

<210> 22  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 22  
uucccuggug ccaccagccu 20

<210> 23  
<211> 20

x16329 SEQ (12.2.05).txt

<212> RNA	
<213> Artificial Sequence	
<220>	
<223> oligomeric Compound	
<400> 23	
auuugaaaaau guugaucucc	20
<210> 24	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> oligomeric Compound	
<400> 24	
ggagacaac auuuucaaau	20
<210> 25	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> oligomeric Compound	
<400> 25	
agcacaguug aaacaucuaa	20
<210> 26	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> oligomeric Compound	
<400> 26	
uuagauguuu caacugugcu	20
<210> 27	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> oligomeric Compound	
<400> 27	
agaagcaccu cuggugccac	20
<210> 28	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> oligomeric Compound	
<400> 28	
guggcaccag aggugcuucu	20
<210> 29	
<211> 20	
<212> RNA	

x16329 SEQ (12.2.05).txt

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 29

ucccucacuu cucaccuggu

20

<210> 30

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 30

accaggugag aagugaggga

20

<210> 31

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 31

gcaaaaggga cacugccuuc

20

<210> 32

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 32

gaaggcagug ucccuuuugc

20

<210> 33

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 33

aggcucugcc cacgcgaaca

20

<210> 34

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 34

uguucgcgug ggcagagccu

20

<210> 35

<211> 20

<212> RNA

<213> Artificial Sequence

x16329 SEQ (12.2.05).txt

<220>  
<223> oligomeric Compound

<400> 35  
caacaugagg uccagacaca 20

<210> 36  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 36  
ugugucugga ccucauguug 20

<210> 37  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 37  
aguccacacu caggacugug 20

<210> 38  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 38  
cacaguccug aguguggacu 20

<210> 39  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 39  
uaaggaaccu gcagcucaga 20

<210> 40  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 40  
ucugagcugc agguuccuua 20

<210> 41  
<211> 20  
<212> RNA  
<213> Artificial Sequence

x16329 SEQ (12.2.05).txt

<220>

<223> Oligomeric Compound

<400> 41

cagggacucu gucuccauuc

20

<210> 42

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 42

gaauggagac agagucccug

20

<210> 43

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 43

aacaaaauaa gaaaggccaug

20

<210> 44

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 44

cauggcuuuc uuauuuuguu

20

<210> 45

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 45

gcuaauucugu gaauuaacaa

20

<210> 46

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 46

uuguuaauuc acagaauagc

20

<210> 47

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

x16329 SEQ (12.2.05).txt

<223> oligomeric Compound

<400> 47  
aguuugugcu auucugugaa

20

<210> 48  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 48  
uucacagaau agcacaaacu

20

<210> 49  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 49  
agaauggcuu ugugcuuagu

20

<210> 50  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 50  
acuaaggcaca aagccauucu

20

<210> 51  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 51  
uccaccugaa guucaccccg

20

<210> 52  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 52  
cggggugaac uucaggugga

20

<210> 53  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

x16329 SEQ (12.2.05).txt

<400> 53	
aaggaguauc ugccagacgc	20
<210> 54	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 54	
gcgucuggca gauacuccuu	20
<210> 55	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 55	
uaaucacaca gcaguggcaa	20
<210> 56	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 56	
uugccacugc ugugugauua	20
<210> 57	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 57	
gugcccccgcg gcucacuggg	20
<210> 58	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 58	
cccaugugagc cgcggggcac	20
<210> 59	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	

x16329 SEQ (12.2.05).txt

<400> 59		
aaaggauuuu ggccacugcc		20
<210> 60		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> oligomeric Compound		
<400> 60		
ggcaguggcc uaaauccuuu		20
<210> 61		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> oligomeric Compound		
<400> 61		
acagcaucga gcctaagucau		20
<210> 62		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> oligomeric Compound		
<400> 62		
augacuuggc ucgaugcugu		20
<210> 63		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> oligomeric Compound		
<400> 63		
acagacacac ggccugcagc		20
<210> 64		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> oligomeric Compound		
<400> 64		
gcugcaggcc gugugucugu		20
<210> 65		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> oligomeric Compound		
<400> 65		

gaacgugaca gaugugaagg

<210> 66  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> oligomeric Compound

<400> 66  
 ccuucacauca uguacacguuc

<210> 67  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> oligomeric Compound

<400> 67  
 uccaucaucu uacgccagac

<210> 68  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> oligomeric Compound

<400> 68  
 gucuggcgua agaaugaugga

<210> 69  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> oligomeric Compound

<400> 69  
 ggcgaaucaa auccaucauc

<210> 70  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> oligomeric Compound

<400> 70  
 gaugauggau uugauucgcc

<210> 71  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 71  
 auccacccug cagcucuaug

x16329 SEQ (12.2.05).txt

<210> 72  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 72  
cauagagcug cagguggau 20

<210> 73  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 73  
gccgagaga ccuccagagg 20

<210> 74  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 74  
ccucuggagg ucaucucggc 20

<210> 75  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 75  
uuugaaaaug uugaucucct t 21

<210> 76  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 76  
ggagaucaac auuuucaaat t 21

<210> 77  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 77  
acaaaaauaag aaagccaugt t 21

x16329 SEQ (12.2.05).txt

<210> 78  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 78  
cauggcuuuc uuauuuugut t 21  
  
<210> 79  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 79  
aaggauuuag gccacugcct t 21  
  
<210> 80  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 80  
ggcaguggcc uaaauccuut t 21  
  
<210> 81  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 81  
uuugaaaaug uugaucucc 19  
  
<210> 82  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 82  
uuugaaaaug uugaucucct t 21  
  
<210> 83  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 83  
ggagaucaac auuuucaaa 19  
  
<210> 84

x16329 SEQ (12.2.05).txt

<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 84  
ggagaucaac auuuucaaat t 21

<210> 85  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 85  
uuugaaaaug uugaucuccu 20

<210> 86  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 86  
uuugaaaaug uugaucuccu u 21

<210> 87  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 87  
aggagaucaa cauuuucaaa 20

<210> 88  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 88  
aauuugaaaa uguugaucuc c 21

<210> 89  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 89  
ucgcgggacc cguuggcag 19

<210> 90  
<211> 19

x16329 SEQ (12.2.05).txt

<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 90	
cugccaacgg gucccgcgaa	19
<210> 91	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 91	
ggaccaccgc aucucuaca	19
<210> 92	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 92	
uguagagaug cgugguucc	19
<210> 93	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 93	
cuggccuuc uuggagggc	19
<210> 94	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 94	
gcccuccaag aagggccag	19
<210> 95	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 95	
ggcuucaucc acugcccca	19
<210> 96	
<211> 19	
<212> RNA	

x16329 SEQ (12.2.05).txt

<213> Artificial Sequence  
<220>  
<223> Oligomeric Compound  
<400> 96  
uggggcagug gaugaagcc 19  
<210> 97  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
<220>  
<223> Oligomeric Compound  
<400> 97  
cgagccagac uuggcccaag 19  
<210> 98  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
<220>  
<223> Oligomeric Compound  
<400> 98  
cuggggccaag ucuggcucg 19  
<210> 99  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
<220>  
<223> Oligomeric Compound  
<400> 99  
ggagcuggaa ggcugggag 19  
<210> 100  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
<220>  
<223> Oligomeric Compound  
<400> 100  
cucccagccu uccagcucc 19  
<210> 101  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
<220>  
<223> Oligomeric Compound  
<400> 101  
aaagcaauucg uccggguugc 19  
<210> 102  
<211> 19  
<212> RNA  
<213> Artificial Sequence

x16329 SEQ (12.2.05).txt

<220>		
<223>	Oligomeric Compound	
<400>	102	
	gcaaccggac gaaugcuuu	19
<210>	103	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Oligomeric Compound	
<400>	103	
	cauaaaaagc auucguccg	19
<210>	104	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Oligomeric Compound	
<400>	104	
	cggacgaaug cuuuuuuaug	19
<210>	105	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Oligomeric Compound	
<400>	105	
	gaauuaaccc uuggugaaau	19
<210>	106	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Oligomeric Compound	
<400>	106	
	auucaccaag gguuaauuc	19
<210>	107	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Oligomeric Compound	
<400>	107	
	acuggacaga gaaagagcc	19
<210>	108	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	

x16329 SEQ (12.2.05).txt

<220>

<223> oligomeric Compound

<400> 108

ggcucuuucu cuguccagu

19

<210> 109

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 109

gaaagagcca agaacaaaa

19

<210> 110

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 110

uuuuguucuu ggcucuuuc

19

<210> 111

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 111

gagccaagaa caaaauugc

19

<210> 112

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 112

gcaauuuugu ucuuggcuc

19

<210> 113

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 113

uugcaaagga aaccaacaa

19

<210> 114

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

&lt;223&gt; oligomeric Compound

<400> 114  
uuguugguuu ccuuugcaa

19

<210> 115  
<211> 19  
<212> RNA  
<213> Artificial Sequence<220>  
<223> oligomeric Compound<400> 115  
ccaacaauaa gaagaaaga

19

<210> 116  
<211> 19  
<212> RNA  
<213> Artificial Sequence<220>  
<223> oligomeric Compound<400> 116  
ucuuucuucu uauuguugg

19

<210> 117  
<211> 19  
<212> RNA  
<213> Artificial Sequence<220>  
<223> oligomeric Compound<400> 117  
gaagaagaa uuugaggaa

19

<210> 118  
<211> 19  
<212> RNA  
<213> Artificial Sequence<220>  
<223> oligomeric Compound<400> 118  
uuccucaaau ucuuucuuc

19

<210> 119  
<211> 19  
<212> RNA  
<213> Artificial Sequence<220>  
<223> oligomeric Compound<400> 119  
cugcgaagaa agugcgccg

19

<210> 120  
<211> 19  
<212> RNA  
<213> Artificial Sequence<220>  
<223> oligomeric Compound

x16329 SEQ (12.2.05).txt

<400> 120	
cggcgcacuu ucuuucgcag	19
<210> 121	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 121	
ggagaucaac auuuucaaaa	19
<210> 122	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 122	
uuugaaaaug uugaucucc	19
<210> 123	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 123	
cugugcuccu guuuugugu	19
<210> 124	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 124	
agacaaaaca ggagcacag	19
<210> 125	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 125	
guggcaccag aggugcuuc	19
<210> 126	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	

x16329 SEQ (12.2.05).txt

<400> 126	gaagcaccuc uggugccac	19
<210> 127		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 127	gaaggcagug ucccuuuug	19
<210> 128		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 128	caaaagggac acugccuuc	19
<210> 129		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 129	gaugcaugac uugugugug	19
<210> 130		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 130	cacacacaag ucaugcauc	19
<210> 131		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 131	uggagacaga gucccuggc	19
<210> 132		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 132		

gccaggacu cugucucca

<210> 133  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 133  
 cauggcuuuc uuauuuugu

<210> 134  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 134  
 acaaaaauaag aaaggcaug

<210> 135  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 135  
 uuguuaauuc acagaauag

<210> 136  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 136  
 cuauucugug aauuaacaa

<210> 137  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 137  
 cuacaauuaa aacuaagca

<210> 138  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Oligomeric Compound

<400> 138  
 ugcuuaguuu uaauuguag

x16329 SEQ (12.2.05).txt

<210> 139  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 139  
acuaagcacaca aagccauuc 19

<210> 140  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 140  
gaauggcuuu gugcuuagu 19

<210> 141  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 141  
uagagugaua ggaagcguc 19

<210> 142  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 142  
gacgcuuccu aucacucua 19

<210> 143  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 143  
gcgucuggca gauacuccu 19

<210> 144  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 144  
aggaguaucu gccagacgc 19

x16329 SEQ (12.2.05).txt

<210> 145  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 145  
aaggca gugg ccu aaucc 19  
  
<210> 146  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 146  
ggauuu agg c acugcc uu 19  
  
<210> 147  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 147  
ggcagugg gc uaaauc cuu 19  
  
<210> 148  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 148  
aaggauuu ag gccacug gc 19  
  
<210> 149  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 149  
augacuugg gc ucgaugc ug 19  
  
<210> 150  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 150  
cagcaucg ag ccaagucau 19  
  
<210> 151

x16329 SEQ (12.2.05).txt

<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 151  
ccuucacacauc ugucacguu 19

<210> 152  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 152  
aacgugacag augugaagg 19

<210> 153  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 153  
uucacagaaau agcacaaac 19

<210> 154  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 154  
guuugugcua uucugugaa 19

<210> 155  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 155  
gccugcaccc cggagcgga 19

<210> 156  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 156  
uccgcuccgg ggugcaggc 19

<210> 157  
<211> 19

x16329 SEQ (12.2.05).txt

<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 157  
cauaaaaagc auucguccg 19

<210> 158  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 158  
cggacgaaug cuuuuuau 19

<210> 159  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 159  
agcagcuggc ugcuaugga 19

<210> 160  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 160  
uccauggcag ccagcugcu 19

<210> 161  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 161  
gcugcaccac uuccagggu 19

<210> 162  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 162  
acccuggaag uggugcagc 19

<210> 163  
<211> 19  
<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 163

uucccuuggug ccaccagcc

19

<210> 164

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 164

ggcugugggc accaggaa

19

<210> 165

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 165

ugggccccuu agcaauguc

19

<210> 166

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 166

gacauugcua aggggcccc

19

<210> 167

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 167

aggaaaggag aucaacauu

19

<210> 168

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 168

aauguugauc uccuuuuccu

19

<210> 169

<211> 19

<212> RNA

<213> Artificial Sequence

x16329 SEQ (12.2.05).txt

<220>		
<223>	oligomeric Compound	
<400>	169	
	uuagauguuu caacugugc	19
<210>	170	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	oligomeric Compound	
<400>	170	
	gcacaguuga aacaucuaa	19
<210>	171	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	oligomeric Compound	
<400>	171	
	caguggcugc uucucucuc	19
<210>	172	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	oligomeric Compound	
<400>	172	
	gagagagaag cagccacug	19
<210>	173	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	oligomeric Compound	
<400>	173	
	cucauuuuug cuguuuuga	19
<210>	174	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	oligomeric Compound	
<400>	174	
	ucaaaaacagc aaaaaugag	19
<210>	175	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	

x16329 SEQ (12.2.05).txt

<220>

<223> oligomeric Compound

<400> 175

uguucgcgug ggcagagcc

19

<210> 176

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 176

ggcucugccc acgcgaaca

19

<210> 177

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 177

ugugucugga ccucauguu

19

<210> 178

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 178

aacaugaggu ccagacaca

19

<210> 179

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 179

cacaguccug aguguggac

19

<210> 180

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 180

guccacacuc aggacugug

19

<210> 181

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

x16329 SEQ (12.2.05).txt

<223> oligomeric Compound

<400> 181  
uggacuuggc aggugccug

19

<210> 182  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 182  
caggcaccug ccaagucca

19

<210> 183  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 183  
ucugagcugc agguuccuu

19

<210> 184  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 184  
aaggaaccug cagcucaga

19

<210> 185  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 185  
gugccuccuc agaggacag

19

<210> 186  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 186  
cuguccucug aggaggcac

19

<210> 187  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

x16329 SEQ (12.2.05).txt

<400> 187 guuguugugu uuuuuuuguu	19
<210> 188 <211> 19 <212> RNA <213> Artificial Sequence	
<220> <223> Oligomeric Compound	
<400> 188 aacaaaaaaaaa cacaacaac	19
<210> 189 <211> 19 <212> RNA <213> Artificial Sequence	
<220> <223> Oligomeric Compound	
<400> 189 acuaagcaca aagccauuc	19
<210> 190 <211> 19 <212> RNA <213> Artificial Sequence	
<220> <223> Oligomeric Compound	
<400> 190 gaauggcuuu gugcuuagu	19
<210> 191 <211> 19 <212> RNA <213> Artificial Sequence	
<220> <223> Oligomeric Compound	
<400> 191 gccauucuaa gucauuggg	19
<210> 192 <211> 19 <212> RNA <213> Artificial Sequence	
<220> <223> Oligomeric Compound	
<400> 192 cccaaugacu uagaauggc	19
<210> 193 <211> 19 <212> RNA <213> Artificial Sequence	
<220> <223> Oligomeric Compound	

x16329 SEQ (12.2.05).txt

<400> 193		
gucauuugggg	aaacggggu	19
<210> 194		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 194		
accccgguuuc	cccaaugac	19
<210> 195		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 195		
cggggugaaac	uucaggugg	19
<210> 196		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 196		
ccaccugaag	uucaccccg	19
<210> 197		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 197		
gcccccugcc	uggcagccc	19
<210> 198		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 198		
gggcugccag	gcagggggc	19
<210> 199		
<211> 19		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Oligomeric Compound		
<400> 199		

guccggccca g gucccccgcu

<210> 200  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 200  
agcggggacc ugggcggac

<210> 201  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 201  
gucuggcgua agaugaugg

<210> 202  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 202  
ccaucaucuu acgcccagac

<210> 203  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 203  
gaugauggau uugauucgc

<210> 204  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 204  
gcgaaucaaa uccaucauc

<210> 205  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligomeric Compound

<400> 205  
ccucuggagg ucaucucgg

x16329 SEQ (12.2.05).txt

<210> 206  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 206  
ccgagaugac cuccagagg 19  
  
<210> 207  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 207  
auuugaaucg cgggaccccg 19  
  
<210> 208  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 208  
cgggucccgc gauucaaau 19  
  
<210> 209  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 209  
cggcaugggu gccccgacg 19  
  
<210> 210  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 210  
cgucggggca cccaugccg 19  
  
<210> 211  
<211> 19  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> oligomeric Compound  
  
<400> 211  
ggcccauggu uucuucugc 19

x16329 SEQ (12.2.05).txt

<210> 212  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 212  
gcagaagaaa cacuggggcc 19

<210> 213  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 213  
ugcagcgggu gcugcuggu 19

<210> 214  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 214  
accagcagca cccgcugca 19

<210> 215  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 215  
accaggugag aaugugaggg 19

<210> 216  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 216  
cccuacacuuc ucaccuggu 19

<210> 217  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> oligomeric Compound

<400> 217  
uugccacugc ugugugauu 19

<210> 218

x16329 SEQ (12.2.05).txt

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 218

aaucacacag caguggcaa

19

<210> 219

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 219

cuggccgcuc cuccucag

19

<210> 220

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 220

cugagggagg agcggccag

19

<210> 221

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 221

cccaugagac cgcggggca

19

<210> 222

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 222

ugcccccgcgg cucacuggg

19

<210> 223

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligomeric Compound

<400> 223

gcugcaggcc gugugucug

19

<210> 224

<211> 19

x16329 SEQ (12.2.05).txt

<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 224	
cagacacacg gccugcagc	19
<210> 225	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 225	
cauagagcug cagggugga	19
<210> 226	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 226	
uccacccugc agcucuaug	19
<210> 227	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 227	
auuguuacag cuucgcugg	19
<210> 228	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 228	
ccagcgaagc uguaacaaau	19
<210> 229	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Oligomeric Compound	
<400> 229	
agaaaauaaaa agccuguca	19
<210> 230	
<211> 19	
<212> RNA	

x16329 SEQ (12.2.05).txt

<213> Artificial Sequence

<220>

<223> oligomeric Compound

<400> 230

ugacaggcuu uuuauuuucu

19

<210> 231

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 231

gcaccaccctc cagggtttat tc

22

<210> 232

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 232

tccctttcc taagacattg ctaagg

26

<210> 233

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 233

tggtgccacc agcttcctg tg

22

**x16329 SEQ (12.2.05).txt**